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        35                  40                  45
Pro Phe Ser Pro Gly Pro Ser Pro Gly Met Thr Pro Gly Thr Pro Arg
    50                  55                  60
Ser Ser Gly Leu Phe Trp Arg Val Thr Cys Pro His Leu Arg Ser Ile
65                  70                  75                  80
Ser Gly Leu Cys Ser Arg Thr Met Val Gly Phe Gln Lys Gly Thr Arg
                85                  90                  95
Gln Leu Leu Gly Ser Arg Thr Gln Leu Glu Leu Val Leu Ala Gly Ala
            100                 105                 110
Ser Leu Leu Leu Ala Ala Leu Leu Leu Gly Cys Leu Val Ala Leu Gly
        115                 120                 125
Val Gln Tyr His Arg Asp Pro Ser His Ser Thr Cys Leu Thr Glu Ala
    130                 135                 140
Cys Ile Arg Val Ala Gly Lys Ile Leu Glu Ser Leu Asp Arg Gly Val
145                 150                 155                 160
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Arg Asn Pro Leu Pro Asp Gly Arg Ser Arg Trp Asn Thr Phe Asn Ser
            180                 185                 190
Leu Trp Asp Gln Asn Gln Ala Ile Leu Lys His Leu Leu Glu Asn Thr
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Thr Phe Asn Ser Ser Ser Glu Ala Glu Gln Lys Thr Gln Arg Phe Tyr
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Trp Asp Gln Asp Asn Phe Met Glu Val Leu Lys Ala Val Ala Gly Thr
            260                 265                 270
Tyr Arg Ala Thr Pro Phe Phe Thr Val Tyr Ile Ser Ala Asp Ser Lys
        275                 280                 285
Ser Ser Asn Ser Asn Val Ile Gln Val Asp Gln Ser Gly Leu Phe Leu
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Pro Ser Arg Asp Tyr Tyr Leu Asn Arg Thr Ala Asn Glu Lys Val Leu
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2

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Pro Ser Met Asp Trp Leu Glu Phe Leu Ser Phe Leu Leu Ser Pro Leu
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Glu Leu Ser Asp Ser Glu Pro Val Val Val Tyr Gly Met Asp Tyr Leu
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Gln Gln Val Ser Glu Leu Ile Asn Arg Thr Glu Pro Ser Ile Leu Asn
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Asn Tyr Leu Ile Trp Asn Leu Val Gln Lys Thr Thr Ser Ser Leu Asp
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Gly Ile Gly Val Val Met Gly His Glu Leu Thr His Ala Phe Asp Asp
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Gln Gly Arg Glu Tyr Asp Lys Glu Gly Asn Leu Arg Pro Trp Trp Gln
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Asn Glu Ser Leu Ala Ala Phe Arg Asn His Thr Ala Cys Met Glu Glu
        675             680             685
Gln Tyr Asn Gln Tyr Gln Val Asn Gly Glu Arg Leu Asn Gly Arg Gln
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3

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4

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Thr Arg Gln Leu Leu Gly Ser Arg Thr Gln Leu Glu Leu Val Leu Ala
        50                  55                  60
Gly Ala Ser Leu Leu Leu Ala Ala Leu Leu Leu Gly Cys Leu Val Ala
65                  70                  75                  80
Leu Gly Val Gln Tyr His Arg Asp Pro Ser His Ser Thr Cys Leu Thr
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Glu Ala Cys Ile Arg Val Ala Gly Lys Ile Leu Glu Ser Leu Asp Arg
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Gly Val Ser Pro Cys Glu Asp Phe Tyr Gln Phe Ser Cys Gly Gly Trp
           115                 120                 125
Ile Arg Arg Asn Pro Leu Pro Asp Gly Arg Ser Arg Trp Asn Thr Phe
       130                 135                 140
Asn Ser Leu Trp Asp Gln Asn Gln Ala Ile Leu Lys His Leu Leu Glu
145                 150                 155                 160
Asn Thr Thr Phe Asn Ser Ser Ser Glu Ala Glu Gln Lys Thr Gln Arg
               165                 170                 175
Phe Tyr Leu Ser Cys Leu Gln Val Glu Arg Ile Glu Glu Leu Gly Ala
           180                 185                 190
Gln Pro Leu Arg Asp Leu Ile Glu Lys Ile Gly Gly Trp Asn Ile Thr
       195                 200                 205
Gly Pro Trp Asp Gln Asp Asn Phe Met Glu Val Leu Lys Ala Val Ala
   210                 215                 220
Gly Thr Tyr Arg Ala Thr Pro Phe Phe Thr Val Tyr Ile Ser Ala Asp
225                 230                 235                 240
Ser Lys Ser Ser Asn Ser Asn Val Ile Gln Val Asp Gln Ser Gly Leu
               245                 250                 255
Phe Leu Pro Ser Arg Asp Tyr Tyr Leu Asn Arg Thr Ala Asn Glu Lys
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                 260                    265                    270
Val Leu Thr Ala Tyr Leu Asp Tyr Met Glu Glu Leu Gly Met Leu Leu
         275                    280                    285
Gly Gly Arg Pro Thr Ser Thr Arg Glu Gln Met Gln Gln Val Leu Glu
         290                    295                    300
Leu Glu Ile Gln Leu Ala Asn Ile Thr Val Pro Gln Asp Gln Arg Arg
305                    310                    315                    320
Asp Glu Glu Lys Ile Tyr His Lys Met Ser Ile Ser Glu Leu Gln Ala
                 325                    330                    335
Leu Ala Pro Ser Met Asp Trp Leu Glu Phe Leu Ser Phe Leu Leu Ser
                 340                    345                    350
Pro Leu Glu Leu Ser Asp Ser Glu Pro Val Val Val Tyr Gly Met Asp
         355                    360                    365
Tyr Leu Gln Gln Val Ser Glu Leu Ile Asn Arg Thr Glu Pro Ser Ile
         370                    375                    380
Leu Asn Asn Tyr Leu Ile Trp Asn Leu Val Gln Lys Thr Thr Ser Ser
385                    390                    395                    400
Leu Asp Arg Arg Phe Glu Ser Ala Gln Glu Lys Leu Leu Glu Thr Leu
                 405                    410                    415
Tyr Gly Thr Lys Lys Ser Cys Val Pro Arg Trp Gln Thr Cys Ile Ser
                 420                    425                    430
Asn Thr Asp Asp Ala Leu Gly Phe Ala Leu Gly Ser Leu Phe Val Lys
                 435                    440                    445
Ala Thr Phe Asp Arg Gln Ser Lys Glu Ile Ala Glu Gly Met Ile Ser
                 450                    455                    460
Glu Ile Arg Thr Ala Phe Glu Glu Ala Leu Gly Gln Leu Val Trp Met
465                    470                    475                    480
Asp Glu Lys Thr Arg Gln Ala Ala Lys Glu Lys Ala Asp Ala Ile Tyr
                 485                    490                    495
Asp Met Ile Gly Phe Pro Asp Phe Ile Leu Glu Pro Lys Glu Leu Asp
                 500                    505                    510
Asp Val Tyr Asp Gly Tyr Glu Ile Ser Glu Asp Ser Phe Phe Gln Asn
         515                    520                    525
Met Leu Asn Leu Tyr Asn Phe Ser Ala Lys Val Met Ala Asp Gln Leu
         530                    535                    540
Arg Lys Pro Pro Ser Arg Asp Gln Trp Ser Met Thr Pro Gln Thr Val
545                    550                    555                    560
Asn Ala Tyr Tyr Leu Pro Thr Lys Asn Glu Ile Val Phe Pro Ala Gly
                 565                    570                    575
Ile Leu Gln Ala Pro Phe Tyr Ala Arg Asn His Pro Lys Ala Leu Asn
                 580                    585                    590
Phe Gly Gly Ile Gly Val Val Met Gly His Glu Leu Thr His Ala Phe
                 595                    600                    605
Asp Asp Gln Gly Arg Glu Tyr Asp Lys Glu Gly Asn Leu Arg Pro Trp
         610                    615                    620
Trp Gln Asn Glu Ser Leu Ala Ala Phe Arg Asn His Thr Ala Cys Met
625                    630                    635                    640
Glu Glu Gln Tyr Asn Gln Tyr Gln Val Asn Gly Glu Arg Leu Asn Gly
                 645                    650                    655
Arg Gln Thr Leu Gly Glu Asn Ile Ala Asp Asn Gly Gly Leu Lys Ala
                 660                    665                    670
Ala Tyr Asn Ala Tyr Lys Ala Trp Leu Arg Lys His Gly Glu Glu Gln
                 675                    680                    685
Gln Leu Pro Ala Val Gly Leu Thr Asn His Gln Leu Phe Phe Val Gly
         690                    695                    700
Phe Ala Gln Val Trp Cys Ser Val Arg Thr Pro Glu Ser Ser His Glu
705                    710                    715                    720
Gly Leu Val Thr Asp Pro His Ser Pro Ala Arg Phe Arg Val Leu Gly
                 725                    730                    735
Thr Leu Ser Asn Ser Arg Asp Phe Leu Arg His Phe Gly Cys Pro Val
                 740                    745                    750
Gly Ser Pro Met Asn Pro Gly Gln Leu Cys Glu Val Trp
         755                    760                    765
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